

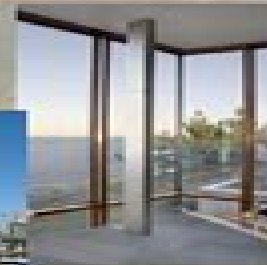
# COLUMNS INTERACTION DIAGRAMS

UNIVERSITY OF WISCONSIN-STOUT  
COLLEGE OF SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS  
LECTURE X

DR. JASON E. CEBRALAMERDES

## COLUMNS – COMPARE MATERIALS

- ❑ Let's try to visualize the effect of strength and the geometry that would correspond to a design for a specific load.
- ❑ Let's take two very prominent materials:
  - Steel:  $E = 29000000 \text{ psi}$
  - Concrete:  $E = 3600000 \text{ psi}$
- ❑ It is obvious that in order to compensate the strength difference, we will address the geometric form, i.e. the cross sectional area. So a Steel column can be way more slender than a concrete column, just to bear the load.



# Lect10 Columns Interaction Diagrams

**Robert R. Redfield**



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